

# ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

## REGULATORY CONTACT RECORD

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**Date/Time:** August 25, 2003 / 4:00 pm

**Site Contact(s):** Chris Gilbreath Sarah Roberts  
**Phone:** 303-966-7355 303-966-3008

**Regulatory Contact:** Denise Onyskiw  
**Phone:** 303-692-3371  
**Agency:** CDPHE

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**Purpose of Contact:** Contaminants of Concern for Building 771/774 Structural Floors/Walls/Ceilings

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### Discussion

*In-situ* gamma spectroscopy data, as well as paint and concrete sample data from highly contaminated areas, indicate that weapons-grade plutonium (WGP) isotopes are the contaminants of concern in and on the Building 771 and 774 structure (specifically Pu-239/240 and Am-241, which represent > 99% of the total alpha activity for 34-year old WGP). No indications of fission or activation products are apparent. In addition, uranium concentrations are typical of natural levels, with the exception of Old Tank 40 in Building 774 (which may contain depleted uranium). This radiological survey data was provided to Mr. Kray on August 14, 2003, for additional review. CDPHE concurred that the data indicates that the contaminants of concern for B771/B774 structural floors/walls/ceilings are Pu-239, Pu-240, and Am-241 only. Additional *in-situ* verification samples shall be collected per the *Building 771/774 Closure Project Characterization Plan For Areas Greater than Three Feet Below Final Grade*. These samples shall also be evaluated for uranium and radium to assure these isotopes are only present in natural abundance. This Contact Record does not pertain to any environmental monitoring that may be performed following building demolition.

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**Contact Record Prepared By:** Chris Gilbreath

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#### Required Distribution:

P. Arnold, K-H 371  
C. Deck, K-H  
R. DiSalvo  
C. Gilbreath, K-H 771

J. Legare, DOE  
R. Leitner, K-H 371  
J. Mead, K-H ESS  
S. Nesta, K-H RISS

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#### Additional Distribution:

D. Onyskiw, CDPHE  
E. Kray, CDPHE  

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H. Cruickshank, K-H 771  
S. Gunderson, CDPHE

K. North, K-H ESS/MS  
L. Kilpatrick, RFFO  
T. Rehder, USEPA  
D. Shelton, K-H

